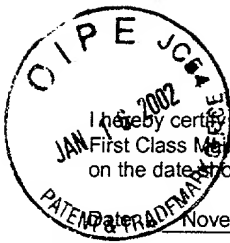


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Date: November 28, 2001

By: Carol A. See  
Carol A. See

**PATENT**  
**Docket No. GC626-2**



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Application of

Estell et al.

Serial No. 09/932,369

Filed: August 17, 2001

For: Mass Spectrometric Analysis of  
Biopolymers

Group Art Unit: 1645

Examiner: Not Assigned

**Preliminary Amendment**

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Washington, D.C. 20231

Sir:

Prior to examination, applicants respectfully request entry of the following amendments.

**In the specification:**

On page 8, please replace the paragraph starting on line 10 with the following clean copy of the paragraph:

--Figure 5. Total ion current chromatogram of peptides 1, 2, and 3 from Figure 3. (1) Mass 980.6 (1+), left trace; mass 991.5 (1+), right trace, corresponding to tryptic peptide SSLENTTTK (SEQ ID NO:1) of BPN' and containing 11 nitrogen atoms. (2) Mass 765.6(2+), left trace; mass 775.6 (2+), right trace corresponding to tryptic peptide APALHSQGYTGSNVK (SEQ ID NO:2) of BPN' and containing 20 nitrogen atoms. 'x' is an unrelated peptide. (3) Mass 627.0 (2+), left trace; mass 636.4(2+), right trace corresponding to tryptic peptide HPNWTNTQVR (SEQ ID NO:3) of BPN' and containing 19 nitrogen atoms.--

On page 8, please replace the paragraph starting on line 19 with the following clean copy of the paragraph:

00932369-01602

--Figure 6. Table I.: Sequence comparison (SEQ ID NOs:4-15), m/z values, and ratios of integrated TIC peak areas and UV absorbance peak areas for chromatogram in Figure 1. The concentration measured by the co-digest technique for subtilisin and subtilisin-DAI was 8.15 and 7.13 mg/ml, respectively, while the given concentration (established by independent methods) was 7.99 and 7.03mg/ml, respectively.--

On page 30, please replace the paragraph starting on line 5 with the following clean copy of the paragraph:

--Table I.: Sequence comparison (SEQ ID NOs:4-15), m/z values, and ratios of integrated TIC peak areas and UV absorbance peak areas for chromatograms in Figure 1. The concentration measured by the co-digest technique for subtilisin and subtilisin-DAI was 8.15 and 7.13 mg/ml, respectively, while the given concentration (established by independent methods) was 7.99 and 7.03mg/ml, respectively.--

In the specification after page 33, insert the Sequence Listing, presented on pages 1-4 enclosed herewith.

**REMARKS**

Entry of the above amendments prior to examination is respectfully requested.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page(s) is/are captioned "**Version With Markings to Show Changes Made.**"

I. Amendments

The specification has been amended in accordance with 37 C.F.R. §1.821 through 1.825 to add the Sequence Listing.

The specification has further been amended in accordance with 37 C.F.R. §1.821(d) to make reference to the sequence by use of the sequence identifier preceded by "SEQ ID NO:".

In view of the foregoing, the applicant submits that the application now complies with the requirements of 37 C.F.R. §1.821 through §1.825.

If in the opinion of the Examiner a telephone conference would expedite the prosecution of the subject application, the Examiner is encouraged to call the undersigned at (650) 846-7615.

Respectfully submitted,

Date: Nov 28, 2001

Victoria L. Boyd  
Victoria L. Boyd  
Registration No. 43,510

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

Figure 5. [Totoal]Total ion current chromatogram of peptides 1, 2, and 3 from Figure 3. (1) Mass 980.6 (1+), left trace; mass 991.5 (1+), right trace, corresponding to tryptic peptide SSLENTTTK (SEQ ID NO:1) of BPN' and containing 11 nitrogen atoms. (2) Mass 765.6(2+), left trace; mass 775.6 (2+), right trace corresponding to tryptic peptide APALHSQGYTGSNVK (SEQ ID NO:2) of BPN' and containing 20 nitrogen atoms. 'x' is an unrelated peptide. (3) Mass 627.0 (2+), left trace; mass 636.4(2+), right trace corresponding to tryptic peptide HPNWTNTQVR (SEQ ID NO:3) of BPN' and containing 19 nitrogen atoms.

Figure 6. Table I.: Sequence comparison (SEQ ID NOs:4-15), m/z values, and ratios of integrated TIC peak areas and UV absorbance peak areas for chromatogram in Figure 1. The concentration measured by the co-digest technique for subtilisin and subtilisin-DAI was 8.15 and 7.13 mg/ml, respectively, while the given concentration (established by independent methods) was 7.99 and 7.03mg/ml, respectively.

Table I.: Sequence comparison (SEQ ID NOs:4-15), m/z values, and ratios of integrated TIC peak areas and UV absorbance peak areas for chromatograms in Figure 1. The concentration measured by the co-digest technique for subtilisin and subtilisin-DAI was 8.15 and 7.13 mg/ml, respectively, while the given concentration (established by independent methods) was 7.99 and 7.03mg/ml, respectively.